

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-24 Canceled without prejudice.

25. (New) A system for lighting an object comprising:

- a) a radiation source;
- b) a first guidance device optically connected to the object;
- c) a second guidance device;
- c) a first subtracting amplifier having a plurality of inputs and at least one output, said first subtracting amplifier in communication with said first guidance device;
- d) a second subtracting amplifier in communication with said first guidance device, and in communication with said second guidance device;

e) a commutation unit in communication with said first guidance device, said second guidance device said first subtracting amplifier and said second subtracting amplifier;

f) at least one actuator in communication with said commutation unit;

g) at least one second actuator in communication with said commutation unit;

h) at least one third actuator in communication with said commutation unit;

i) at least one fourth actuator in communication with said commutation unit;

j) a first mirror in communication with and controlled by said at least one actuator and said at least one second actuator; and

k) a second mirror in communication with and controlled by said at least one third actuator and said at least one fourth actuator wherein said first and said second mirror are controlled by said actuators so that the system can light an object by

reflecting said radiation source.

26. (New) The device as in claim 25, wherein said commutation unit comprises a first commutator and a second commutator wherein at least one input of said first commutator unit and at least one input of said second commutator unit are connected in parallel with each other, the system further comprising a radio receiver; a radio controlled switch, said switch having three contacts and four positions, wherein said first, second, and third contact are in communication with said radio receiver, wherein said first, second and third contacts are switchable to first, second, third and fourth positions, wherein said second and third contacts are switchable into said second, third and fourth positions, wherein said contacts are connected in parallel;

wherein said commutation unit is in communication with said first commutator via said radio controlled switch;

wherein said commutation unit is in communication with said second commutator via said radio controlled switch;

a unit signal source coupled to said parallel inputs of said first and said second commutators in a third position of said

contacts, and in communication with said commutation unit when said contacts are in a fourth position;

an inverter;

a radio transmitter;

an AND gate in communication with said commutation unit wherein said AND gate is in communication with said radio transmitter via said inverter.

27. (New) The system as in claim 25, wherein said first guidance device comprises:

a target seeker;

at least one first actuator in communication with said target seeker for kinematically controlling said target seeker

at least one second actuator in communication with said target seeker for kinematically controlling said target seeker;

a first angular position pickup in kinematic communication with said at least one actuator and having an output forming a

first output for said first guidance device ;

a second angular position pickup in kinematic communication with said at least one second actuator and having an output forming a second output for said first guidance device;

a search signal coordinator having a plurality of inputs and outputs and in communication with said target seeker;

a first commutator having a plurality of inputs and a plurality of outputs;

a second commutator having a plurality of inputs and a plurality of outputs wherein said first and said second commutators each include at least one input that is connected in parallel with each other and also to said search signal coordinator.

28. (New) The system as in claim 25, wherein said second guidance device comprises:

a target seeker having a plurality of outputs;

a light marker disposed on said target seeker;

at least one actuator in communication with and kinematically controlling said target seeker;

at least one second actuator in communication with and kinematically controlling said target seeker

a first angular position pickup kinematically coupled to said at least one actuator and having an output forming an output for said second guidance device;

a second angular position pickup kinematically coupled to said at least one second actuator and having an output which forms an output for said second guidance device;

a search signal conditioner having a plurality of inputs and a plurality of outputs;

a first commutator in communication with said target seeker and in communication with said search signal conditioner;

a second commutator in communication with said target seeker and in communication with said search signal conditioner;

a third commutator in communication with said target seeker

and also in communication with said search signal conditioner;

a fourth commutator in communication with said search signal conditioner and in communication with said at least one actuator;

a fifth commutator in communication with said search signal conditioner and also in communication with said at least one second actuator;

a sixth commutator in communication with said target seeker and in communication with said fourth commutator;

a seventh commutator in communication with said target seeker and in communication with said fifth commutator;

wherein said first, second, third, sixth and seventh commutators are connected in parallel with each other and forming an input of said second guidance device.

29. (New) The system as in claim 25, further comprising a third guidance device, wherein said radiation source is in the form of a laser and further comprising a third guidance device, having an excitation circuit of said laser in communication with said third guidance device and in communication with said laser.

30. (New) The system as in claim 29, wherein said laser excitation circuit comprises a radio receiver, a remotely controlled switch connected to said radio receiver, a unit signal source having an output; a first AND gate having a first input coupled to said output of said unit signal source through said remotely controlled switch, an inverter in communication with said AND gate, a second AND gate in communication with said laser excitation circuit, and with said inverter.

31. (New) The system as in claim 27, wherein said search signal conditioner comprises:

a) a logical unit in communication with said search signal conditioner;

b) a generator of linearly varying voltage in communication with said logical unit;

c) a first modulator having a plurality of inputs and at least one output;

d) a second modulator having a first and a second input and an output wherein said first modulator and said second modulator

having inputs coupled in parallel to each other;

e) a quadrature generator in communication with said first modulator and said second modulator;

f) a first sampling and storage device for receiving record permitting input;

g) a second sampling-and-storage device having a record permitting input;

h) a data input and output wherein said record permitting inputs of said first and said second sampling and storage devices connected in parallel to each other and to said logical unit;

i) a first summation element in communication with said first modulator and with said first sampling and storage device;

j) a second summation element in communication with said second modulator and with said second sampling-and-storage-device;

a first analog to digital converter in communication with said first summation element and with said search signal

conditioner; and

a second analog to digital converter in communication with said second summation element also in communication with said search signal conditioner.

32. (New) The system as in claim 25, further comprising:

a first and a second bracket which are kinematically coupled to first guidance device of said target seeker,

a third and a fourth bracket kinematically coupled to said second guidance device;

a first gimbal mount;

an internal frame coupled to said gimbal mount;

a mirror installed on said first internal frame of said first gimbal mount;

an external frame coupled to said first gimbal mount wherein said external frame is kinematically coupled to said second actuators of said system;

a second gimbal mount having an internal and an external frame kinematically coupled to said at least one third and said at least one fourth actuator of said system;

a concentric ring of said second gimbal mount, said concentric ring being coupled to said external frame of said second gimbal mount;

a mirror coupled to said concentric ring on said second gimbal mount.

33. (New) The system as in claim 32, further comprising radial tubes, a source of compressed gas, said second mirror having a plurality of internal and external pneumatic chambers pneumatically communicating with each other and with said source of compressed gas, wherein said communication is established through said radial tubes arranged concentrically with respect to said concentric ring of a second gimbal mount, wherein said second mirror has a first reflecting sheet associated with said internal and external pneumatic chambers of said radial tubes said first reflecting sheet having an elastic dielectric film and wherein a light reflecting layer of said first reflecting sheet is applied to said elastic dielectric film.

34. (New) The system as in claim 29, further comprising an emf source having opposite poles, a second reflecting sheet of said mirror disposed at a specified distance from an input of said inverter.

35. (New) The system as in claim 34, wherein said first and said second reflecting sheets in combination with said external pneumatic chambers form a vacuum and pressure tight cavity.

36. (New) The system as in claim 35, further comprising a corrugated elastic band and wherein said internal pneumatic chamber has a first and a second section pneumatically communicating with each other and interconnected through said corrugated elastic band wherein said first and said second ends are displaceable relative to each other; a plurality of sources of controlled voltage, wherein said metallic layer of said second reflecting sheet appearing as concentric rings that are insulated from each other and respectively connected to said plurality of sources of controlled voltage.